Flying Operations

PERSONNEL PARACHUTE OPERATIONS

SUMMARY OF REVISIONS

This supplement incorporates policy contained in AFMCI 11-301, Chapter 7, Parachuting Programs, 26 February 1996. This supplement provides minimum standards of safety, training, and proficiency for Personnel Parachute Operations in AFMC. Additional training, currency, or proficiency parachute jumps may be required locally to ensure individuals maintain proficiency consistent with mission and test requirements. It prescribes standard general parachuting rules to be used by all AFMC parachuting activities.

AFI 11-410, 1 March 1997, is supplemented as follows:

2.2. This AFMC supplement expands on AFI 11-410, *Personnel Parachute Operations*. It applies to all Air Force Materiel Command units. It does not apply to the Air National Guard or to US Air Force Reserve units and members.

3.4.3. Training Support parachuting operations are conducted to allow aircrew life support, physiological support, and survival training instructors to acquire and maintain expertise in aircrew emergency egress, post egress, and parachute descent procedures, and to enable them to demonstrate these procedures to students during training courses and exercises. Mission profiles for training support operations include high altitude, water, night, and equipment parachuting.
3.4.3.1(Added). All test parachuting DT&E activities will be conducted under the supervision of the USAF TPP located at AFFTC, Edwards AFB, CA. The TPP is designed to provide an indigenous AFMC capability for testing personnel parachutes, aircraft ejection seat systems, associated life support subsystems, and aircraft parachuting platforms. Mission profiles in support of the TPP include free-fall photography, high altitude/low opening, high altitude/high opening, high speed exits, water jumps, night jumps, use of aircraft emergency parachutes and survival kits. In order to ensure sufficient asset availability, all AFMC parachutists may augment the TPP either as a test parachutist (after completing the test parachutist training program) or as an attached parachutist (if the experience level meets the standard required by the test plan).
3.4.3.2.(Added). Physiological Support parachuting operations are conducted to provide physiological technician support of various DoD and other government agencies during high altitude airdrop mission support. Personnel who are assigned to a J manning position should maintain currency and proficiency in parachuting operations.

4.1.3. HQ AFMC/DOV will appoint a PPPM from unit level. The PPPM will work with the HQ AFMC/DOV POC on all command parachuting issues.

4.13.2. HQ AFMC/DOV will:
4.13.2.1(Added). Provide guidance for the conduct of parachuting operations within AFMC.
4.13.2.2(Added). Approve unit supplements to this instruction. Units conducting parachuting operations within AFMC will supplement this instruction to meet their specific mission requirements. Send a copy of these supplements for approval to HQ AFMC/DOV.
4.13.2.3(Added). Designate in writing a command parachute examiner.

4.13.5.1. Provide for augmentation of the HQ AFMC/DOV inspection team, as required, with parachuting personnel qualified to conduct thorough administrative and practical evaluations of unit parachuting programs.

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Pages: 17/Distribution: F

4.14.3. Technical order procedures listed as "MAJCOM options" will be determined at wing/unit level to standardize TO options within each unit.

4.14.4.2. Implement a quality assurance program for personnel parachutes and parachute program related equipment. Document quality control inspections on AF Form 2420, **Quality Assurance Inspection Summary**.

4.14.8(Added). Ensure parachutist activities receive the same operational supervision common to any flying operation.

4.14.9(Added). Provide resources to support parachute jump training requirements.

4.14.10(Added). Ensure the parachuting program is knowledgeably supervised by at least one officer in charge (OIC), preferably parachutist rated, and one noncommissioned officer in charge (NCOIC), who is both parachutist and jumpmaster rated and designated, by letter, the assigned unit OIC and NCOIC.

4.14.11(Added). Designate parachuting instructors, parachuting examiners, and unit parachuting standardization evaluation liaison officer (SELO) by letter.

4.14.12(Added). Authorize assigned and attached parachutists to conduct parachute operations, including operations with other military organizations, and operations at other locations, as appropriate. During joint activities with organizations outside AFMC, parachuting activities will be briefed and conducted according to the most restrictive guidelines, unless specifically authorized by the DFO.

4.14.13(Added). Approve all preplanned jumps. This authority may be delegated to a lower level.

4.15.3. Ensures the user/maintenance section has access to manufacturer's service bulletins for non-standard parachutes and parachute program related equipment, to perform maintenance functions.

4.15.8(Added). Designate AFT Trainer, parachuting examiners, and unit parachuting SELOs by letter.

4.19. OIC(Added):

4.19.1. Report all unit's parachuting activity to HQ AFMC/DOV for inclusion in meeting the requirements of AFJI 13-210.

4.19.2. Ensure all parachuting incidents and malfunctions are reported through local safety channels and directly to HQ AFMC/DOV by telephone within 24 hours of occurrence.

4.19.3. Review the findings of the parachuting standardization/evaluation program.

4.19.4. Initiate removal from parachuting status any parachutist whose judgment, aptitude, abilities, or capabilities adversely affect mission safety.

4.19.5. Ensure sufficient qualified instructors are available to conduct initial mission and refresher training.

4.19.6. Ensure parachutists meet the qualification requirements of this AFI, are properly trained, and are in good physical condition.

4.19.7. If no OIC is available these duties may be delegated by the DFO to the NCOIC.

4.20. NCOIC(Added).

4.20.1. Establish/maintain field manuals, instructions, T.O.s, regulations, unit supplements, appropriate checklists, and forms for the conduct of all parachuting operations and training.

4.20.2. Ensure DZs, parachute equipment storage and maintenance, and availability of equipment is adequate to support mission requirements.

4.20.3. Determine equipment requirements, order and maintain accountability of parachutes, parachute components, parts, and other jump related equipment.

4.20.4. Determine and monitor the proficiency requirements of all assigned and attached parahutists.

4.20.5. Keep parachutist training record current according to applicable directives. Review the record periodically for completeness and currency.

4.20.6. Be responsible for the efficient scheduling, conduct, and safety of all parachuting operations and training.

4.20.7. Organize and conduct a quarterly parachuting meeting.

4.20.8. Maintain a Parachutist Information File and ensure all parachutists have read and initialed the information contained therein prior to performing any parachuting operations.

4.21. Parachutist(Added).

4.21.1. Maintain required currencies and perform parachuting duties as directed.

4.21.2. Maintain availability for parachuting duties by maintaining a high level of physical fitness, and ensuring timely completion of required medical and dental procedures. Fitness requirements are outlined in the instruction.

4.21.3. Be knowledgeable of instructions, directives, TOs, and other established procedures governing parachuting.
4.21.4. Know and be proficient at parachuting emergency procedures.
4.21.5. Review quarterly, training folders and individual parachuting records for completeness and accuracy.
4.21.6. Complete required individual documentation following parachuting operations, parachute assembly/repack, etc.

5.1.2.1. The DZC will normally be the malfunction officer for AFMC parachuting operations.

5.2. Initial malfunction/incident reports (IAW AFI 11-410, attachment 7) will be forwarded to HQ AFMC/DOV, through the chain of command, within 24 hours of the incident.
5.2.1(Added). Incident Investigation. All reportable incidents will be investigated IAW AFJI 13-210 and AFI 91-204, *Investigating and Reporting US Air Force Mishaps*. The jumpmaster or DZC will normally conduct the initial investigation. The center/unit flight safety officer must be notified immediately. More in-depth investigations will be conducted by an Investigating Officer (IO) appointed by the unit OIC or higher authority. The jumpmaster will normally not be the IO of a malfunction/incident which takes place during his/her mission. In all cases, the jumpmaster and the DZC will play a key role in the overall investigation as a direct source of information.
5.2.2(Added). Duties and Responsibilities. In the event of an incident, the following tasks will be accomplished by the noted individuals:
5.2.2.1(Added). The parachutist will:
- Notify the jumpmaster or DZC of the malfunction/incident as soon as possible after the incident.
- Complete an incident report describing the malfunction/incident.
- Assist the IO in the conduct of the investigation.

5.2.2.2. (Added). The jumpmaster will:
- Add any comments to the incident report that will provide information useful to the investigation.
- In the event the parachutist is unable to complete the incident report, the jumpmaster will complete the report.
- Provide any necessary assistance to personnel conducting the on-site or follow-on investigation.

5.2.2.3(Added). The DZC will act as the DZSO and the Malfunction Officer, and will conduct operations IAW AFJI 13-210, and AFI 91-204:
- Be the on-scene commander until relieved by higher authority. The on-scene commander will direct the following actions (as applicable) in the event of an incident:
  - Request medical/emergency assistance as required.
  - Instruct all personnel at the scene to make no statements concerning the incident, and particularly statements concerning serious injury or death, to anyone not involved in the immediate incident response; next of kin must be notified through official channels.
- The DZC will respond in a similar manner in the event of an aircraft crash; in such a case, the DZC will immediately notify the local command post by radio that an aircraft has crashed. No statements will be made over the radio concerning the personnel on board at the time or about the number of probable fatalities.

5.2.2.4(Added). The Investigating Officer (IO) will:
- Conduct a thorough investigation to determine the most likely cause of the malfunction/ incident, and the required corrective action, if any.
- Submit the investigation report to the OIC of parachuting.
- In the event the incident involved an equipment malfunction, the IO will notify the unit parachute rigging section that a malfunction has occurred and enlist their assistance in determining the cause.

5.2.2.5(Added). The NCOIC of parachuting will:
- Immediately suspend all parachuting operations after being notified of the malfunction/incident, if nature of the incident warrants this action.
- Review the incident report for accuracy and completeness.
- Add comments or recommendations to the report and submit it to the OIC of parachuting.
- Submit a copy of the report to HQ AFMC/DOV.

5.2.3(Added). Documentation of Incidents. Parachute incident reports will be completed within five duty days and will be submitted to the OIC, Parachuting, for review and further dissemination as appropriate. In cases apparently involving misconduct, serious injury, or death, the follow-on investigation will be conducted according to Air Force directives. The IO investigation notes, insights, reports, and physical evidence will be made available for this investigation.

6.1. Training Selection. Individuals selected for entry into formal training will meet prerequisites for appropriate formal training schools. Initial training will be approved by the DFO or designated representative, based upon the recommendations of both the individual's commander and the OIC/NCOIC of parachuting. Units will submit annual formal parachutist training requirements to HQ AFMC/DOV by 30 April for the following fiscal year.

6.1.1.1(Added). Individuals completing formal training must receive local procedures training, and an initial evaluation to become a mission qualified jumper. Parachutists will meet the minimum requirements referenced in AFMC Parachutist Training Outline for applicable upgrade phase, see attachment 1.

6.1.1.2.(Added). Initial Cockpit Resource Management Training. Cockpit resource management training, conducted according to AFI 11-290, *Cockpit/Crew Resource Management Program*, will be received by all AFMC parachutists within six months of completion of mission training.

6.1.1.3(Added). Mission Training. Units conducting parachuting will prepare course training standards, plans of instruction, and lesson plans, approved by the DFO, for the conduct of mission specific training. Include the following areas, as necessary, and augment each area to provide comprehensive training in the mission elements particular to that field activity:

- Mission orientation.
- Parachuting equipment.
- Parachute equipment inspection.
- Predeployment, preparation, and aircraft procedures.
- Parachute canopy control and landing procedures.
- Parachuting emergencies.
  - Parachute malfunctions.
  - Hazardous landings.
- Parachuting emergency procedures laboratory.

Use of the C-9 parachute canopy should be maximized for individuals conducting mission (Training) support training.

6.1.4.4(Added). Jumpmaster/Instructor Training. The OIC of parachuting may select parachutists to attend jumpmaster training when they have demonstrated proficiency and in-depth knowledge of parachuting procedures. Jumpmaster course graduates must then complete mission specific jumpmaster/instructor training. This follow-on training should be both academic and practical, using local training documents approved by the DFO. Jumpmaster/instructors will be current for either or both, static line and free-fall, to be a current jumpmaster/instructor for that respective discipline. Individuals completing mission specific jumpmaster/instructor training must receive an initial jumpmaster evaluation to become a mission qualified jumpmaster.

6.1.4.4.1(Added). Mission Jumpmaster/Instructor Academic Training. Include the following subjects and augment them, as necessary, to provide comprehensive training in the mission specific to the unit:

- Parachuting directives.
- Mission planning.
- Mission briefings for:
  - Pilot or navigator.
  - Safety man.
  - Parachutists.
  - Ground support (DZC).
- Aircraft preparation, inspection, and loading.
- Jumpmaster personnel inspection.
- Inflight communication procedures.
- Predeployment evaluation and spotting procedures appropriate for the unit mission and operational area [i.e., fixed target pattern, crosswind pattern, jumpmaster directed drop, high altitude release point, computed air release point, etc.].
- Deployment procedures.
- Emergency procedures.
  - Aircraft.
  - Parachute.
- Post mission procedures.
- Mission debrief.

6.1.4.4.2(Added). Mission Jumpmaster/Instructor Practical Training. Practical jumpmaster training consists of at least two missions in which the student jumpmaster functions in all aspects of jumpmastering to include; premission planning, predeployment briefing, jumpmaster aircraft inspection/preparation, jumpmaster personnel inspection, deployment of wind drift indicators, determination of the exit point, supervision of exit from the aircraft, and mission debrief. Student jumpmaster must deploy a minimum of one jumper other than himself. When jumpmaster training has been completed *AND THE STUDENT HAS BEEN CERTIFIED AS A JUMPMASTER*, a parachuting examiner will *CONDUCT AN INITIAL EVALUATION.*

6.1.5. Minimum requirements for selection to receive AFT training will be mission qualified freefall parachutist.

6.1.5.3.1(Added). Main parachute spring mounted pilot chute parachute systems will not be used for freefall photography.

6.2.1.1(Added). Currency Requirements. Specific currency requirements are contained in table 6.1. (added). Parachutists who fail to meet the currency requirements in table 6.1 *WILL NOT BE ALLOWED TO PARTICIPATE IN ANY JUMP ACTIVITY FOR WHICH THEY ARE NONCURRENT.*

Table 6.1. Parachutists' Currency Requirements:		
POSITION	**TRAINING ITEM**	**NUMBER/ FREQUENCY**
Static Line qualified	Static line jump	1/90
FreeFall qualified	FreeFall jump	1/90
Jumpmaster qualified	Static line or freefall mission	1/90
Parachutist	Equipment jump	1/90
	Night jump	1/90
	Water jump	1/90
	C-9 jump	1/90
	Emergency Procedures	1/180

6.2.1.2(Added). Refresher Training. Parachutists who fail to meet the minimum currency requirements in this instruction must take refresher training. Parachutists who are noncurrent must receive refresher training only in those areas for which they have gone noncurrent. Field activities will prepare lesson plans for the training. Include the following areas, as applicable, to give comprehensive training in the activity's mission:

- Aircraft procedures
- Door exits and body positions
- Emergency procedures (aircraft and parachute)
- Parachute canopy control
- Parachute landing falls

To ensure the operational safety of the program, activities may conduct additional refresher training when the OIC/NCOIC of the parachuting program deem it necessary. Document this training in the individual parachutist training folder.

6.2.1.3(Added). Proficiency Requirements. Basic proficiency requirements are specified in Table 6.2. (added).

Table 6.2 Basic Proficiency Training Events:		
POSITION	**TRAINING ITEM**	**SEMIANNUAL**
Static Line qualified	Static line jump	4
FreeFall qualified	FreeFall jump	4
C-9 qualified	C-9 jumps	4
Freefall Maneuvering	Freefall Maneuvering jumps	4
Jumpmaster qualified	Jumpmaster mission	4
		ANNUAL
All Parachutist	Physical Fitness Test	1

Physical Fitness Test: The following test, or an equivalent test suited to mission requirements (such as swimming), will be given by the activity's OIC and NCOIC. The time limit for this test is 1 hour. The individual may use any number, combination, or order of the listed exercises to acquire a total of 100 or more points. However, once an exercise is selected, it may not be used again to add points. If an individual fails this test, a makeup test must be satisfactorily completed before the next jump.

Running: 20 points per mile Sit-ups: 1/2 point each Jumping jacks: 1/4 point each (20 points maximum)
Pull-ups: 2 points each Push-ups: 1/2 point each

6.5. All personnel parachute jump training will be documented in AFORMS (if available) and completed AF Form 922s will be maintained for one year after certification. Use AFORMS identifiers listed in AFI 11-202, Vol 1, AFMC Sup 1. If AFORMS is not available, the unit will use a Windows based software tracking system to track training requirements (e.g., Excel, locally developed tracking spreadsheet, etc).

6.5.1(Added). Training records will be inclusive of all information indicative of the training and qualification of the parachutist. Training folders will be maintained by the training NCOIC for all active parachutists. Upon PCS or completion of parachutist duty, the training folders will be given to the individual. Format will be as follows:

- Section I: Qualification Documentation and Letters of Appointment (schools attended, diplomas, aeronautical orders, instructor/ examiner/SELO appointment letters)
- Section II: AF Form 797, **Job Qualification Standard Continuation/Command JQS**
- Section III: AF Form 1098, **Special Task Certification and Recurring Training**
- Section IV: AF Form 922, **Individual Jump Record**
- Section V: AFMC Form 64, **Parachutist Evaluation Record**
- Section VI: Miscellaneous documentation and correspondence to include one copy of the parachutist's current AF Form 1042, **Medical Recommendation for Flying or Special Operational Duty**, and AF Form 702, **Individual Physiological Training Record**, if applicable.

6.5.2(Added). Record training on AF Form 797 and AF Form 1098.

6.5.3(Added). Record all parachute jumps on AF Form 922.

6.5.4(Added). One copy of the parachutist's current aeronautical orders authorizing parachutist status is required.

6.5.5(Added). One copy of any orders or letters related to parachutist initial ratings, jumpmaster ratings, instructor qualifications, appointment to parachute examiner, and a copy of any formal parachuting training school certificates is required.

6.5.6(Added). Documenting Training. The OIC and NCOIC will document each individual's training folder with the type of parachute system (i.e., B-22, MT-1X, MC-4, etc.) in which the individual has received training and is authorized to parachute.

6.6(Added). Standardization/Evaluation:

6.6.1(Added). General. This section outlines the requirements for standardization/evaluation within AFMC. Units conducting parachuting operations will establish a unit standardization/evaluation program, under the direction of a designated unit SELO/Parachute Jump Examiner. The SELO will report directly to the unit commander on all issues pertinent to parachuting trends, personnel qualifications, parachutist performance, evaluation results, and compliance with directives.

6.6.2(Added). Each parachutist must meet certain recurring requirements. Evaluations will consist of ground phase written examinations and a practical aerial phase. These will include an open book written examination (from applicable AFIs, supplements, T.O.s, and manuals), and a closed book written examination of 25 questions (from a master question file, MQF). Units will conduct, as a minimum, evaluations once every 17 months on each parachutist. Evaluations will be accomplished by the last day of the 17th month following the month of the previous evaluation. The period of eligibility begins on the 6th month prior to the due date. Parachutists will be evaluated at their highest qualification level. Individuals qualified in both static line and free-fall operations need only meet the practical evaluation requirement in one type of operation. Document evaluations as applicable on AFMC Form 64, **Parachutist Evaluation Record**, see attachment 2.

6.6.3(Added). Written examinations will be administered by the unit standardization/evaluation office, unit SELO, or parachute jump examiner. The open and closed book examinations will be accomplished during the period of eligibility. A minimum passing score of 85 percent is required. The SELO/Parachute Jump Examiner will maintain a MQF covering all pertinent areas of the written evaluation. Each MQF will be reviewed annually, or as changes in subject areas dictate, to ensure it accurately reflects the latest in guidance, procedures, and operations.

6.6.4(Added). Parachutist/Jumpmaster/Instructor practical evaluations administered by a designated parachute jump examiner will include:

- Oxygen equipment and procedures (as applicable).
- Equipment.
- Instructional capabilities (ability to communicate, teach, analyze errors, make corrections) (JM/I).
- Premission planning and coordination. (JM/I)
- Jumpmaster briefing. (JM/I)
- Use of checklists. (JM/I)
- Standard time calls. (JM/I)
- Standard hand signals. (JM/I)
- Personnel equipment inspections.
- Emergency procedures (aircraft).
- Emergency procedures (parachuting).
- Oral evaluation.

6.6.5(Added). Should a practical evaluation or written examination be failed, documentation of failure will be entered in the individual's parachutist training folder and retraining in the deficient areas will be accomplished. The parachutist will be grounded from parachuting operations until

retraining is accomplished. Following retraining, a reevaluation will be accomplished. Should an individual fail a second time, the OIC and NCOIC will consider removing the parachutist from parachuting status.

8.2.5. Air Force LPUs are approved for AFMC jump operations.

8.2.7.1(Added). Use of the Pro-tec or similar helmet (approved by HQ AFMC/DOV) is authorized for water jumps.

8.2.8(Added). For AFMC parachute operations the minimum jump altitude for static line jumps are:

- For fixed wing aircraft with a drop speed more than 90 knots indicated airspeed (KIAS), minimum jump altitude is 1,000 feet AGL.
- For rotary wing aircraft and fixed wing aircraft with a drop speed of less than 90 KIAS, minimum jump altitude is 1,500 feet AGL.

8.2.9(Added). On helicopters, when sitting in an open door, static lines will be hooked up at 1,000 feet AGL and must be hooked up before lap belt removal.

8.2.10(Added). Wind limitations:

- A no-drop situation exists when winds exceed the maximum allowable cut-off within 10 minutes of the actual drop or a gust spread of 10 knots or greater exists.

9.2.2. The minimum altitudes for Military Free-Fall (MFF) parachute system jumps are:

- The minimum altitude for the FF-2 ARR setting is 2,500 feet AGL.
- The minimum altitude for exit from the aircraft, using standard equipment, is 2,500 feet AGL above the FF-2/ARR activation altitude.
- The minimum altitude for pack opening during free-fall parachuting, using standard equipment, is 3,500 feet AGL.
- The minimum altitude for both exit from the aircraft and pack opening during free-fall parachuting, using nonstandard equipment, is 2,500 feet AGL.
- The minimum altitude for exit from aircraft, using aircrew style parachutes, is 3,500 feet AGL.
- The minimum altitude for pack opening during freefall parachuting, using aircrew parachutes, is 3,000 feet AGL.
- The minimum altitude for initiating an intentional cutaway is 4,000 feet AGL.
- The minimum altitude for initiating an intentional hand deployed chest reserve is 1,000 feet AGL.

9.2.4. Wind limitations:

- A no-drop situation exists when winds exceed the maximum allowable cut-off within 10 minutes of the actual drop or a gust spread of 10 knots or greater exists.
- The maximum allowable wind speed for land parachuting freefall operations using round parachute canopies is 13 knots.

9.2.7.1(Added). Personnel locator beacons are not required for parachutes used in premeditated jump operations.

9.2.8. ARRs used on non-standard equipment will be set IAW manufacturer's instructions.

10.3.1.1(Added). The DZC will:

10.3.1.1.1(Added). Inventory and inspect DZ equipment prior to departing for the DZ.

10.3.1.1.2(Added). Watch for, and warn parachutists of, unexpected hazards and dangerous situations such as aircraft intruding the airspace, flocks of birds in the DZ, wind shear, moving vehicle traffic on the DZ, parachutists experiencing an emergency, etc.

10.3.1.1.3(Added). Keep the jumpmasters and the pilot of the platform aircraft advised of any conditions that may affect parachuting operations.

10.3.1.1.4(Added). DZC will maintain radio communications with the parachuting platform. In the event maintenance of radio contact between the DZC and parachuting platform is not possible or impractical, alternate methods of communication such as the use of panels, lights, smoke, etc., may be used. If such alternate methods are used, they will be pre-briefed. Radio communications for night jump operations are required.

10.3.4.1(Added). Parachutists will wear suitable flotation for all water jumps.

10.3.4.2(Added). No more than three parachutists will exit the aircraft at one time for premeditated water jumps. All jumpers on a given pass must be recovered from the water prior to parachutists exiting the aircraft on subsequent passes.

10.3.4.3(Added). Unless waterproof altimeters are worn, jumps over water will be limited to a delay of no more than 10 seconds.

10.3.4.4(Added). Suitable footgear will be worn for all water jumps.

11.1.1.3. All jumps will be conducted under Visual Meteorological Conditions (VMC). The jumpmaster will not allow parachutists to exit the aircraft unless the exit point and landing point are visible.

11.1.1.6.1(Added). Ensure authorization has been given for the specific parachuting mission profiles prior to each briefing.
11.1.1.6.2(Added). Parachute mission briefings will be conducted prior to conducting parachuting activities. A single briefing may suffice for operations in which multiple lifts to parachuting altitude will occur. All parachuting participants associated with the mission, to include the parachutists, jumpmaster, and the DZC must attend briefings.
11.1.1.6.3(Added). Parachute mission briefings will be conducted in a suitable facility, capable of comfortably seating all participants, and free of excessive noise and distractions. This facility will include, as a minimum, the following:

- Local area maps inclusive of airspace restrictions, DZ locations, airfield locations, restricted or hazardous areas of operations.
- Aerial photographs of frequently used DZs.
- Briefing guides.
- Checklists.
- Applicable field manuals, instructions, regulations, and unit supplements.
- Dry erase board, markers, and eraser.

11.1.1.6.4(Added). During deployed operations, where briefing facilities are not available, or large group parachuting operations, where the size of the group makes use of a briefing room impractical, briefings will be conducted in a location that provides parachutists the opportunity for unencumbered attention to all items discussed.
11.1.1.6.5(Added). All missions will be debriefed with all jumpers and the DZC present.
11.1.1.6.6(Added). It is desirable for the pilots to attend the debrief, however if this does not occur, the jumpmaster will debrief with the pilot(s) accordingly for their inputs.

11.1.3. Coordination of pilot, aircraft, DZC, emergency medical technician support, medical equipment at the DZ, and other mission requirements *ARE A JUMPMASTER RESPONSIBILITY.*.

11.1.3.2. Day of the mission the jumpmaster will:

- Ensure that all jumpers are current on PIF and MQFs.
- Jumpmaster/Pilot/Loadmaster briefing will normally be conducted prior to takeoff.
- Jumpmaster/Jumper briefing will normally be prior to takeoff.
- It may be necessary to change brief times depending upon mission requirements. Jumper briefs can be accomplished the day prior if necessary. It is every jumper's/instructor's responsibility to ensure personnel and equipment readiness at prearranged start of briefing. If more time is required for specific objectives prearrange with the jumpmaster at least the day prior.
- Load time will normally be 15 minutes prior to takeoff.

11.1.3.5.1(Added). DZC, jumpers, and medical personnel will not depart the drop zone until cleared to do so by the jumpmaster.

11.1.3.7. Ensure each parachutist receives an equipment safety check after donning parachute equipment, but prior to exiting the aircraft.
11.1.3.7.1(Added). Ensure that all jumpers receive a final pin check 1 to 3 minutes prior to exiting the aircraft.

11.1.4.1. Ensure no parachutist performs a parachute jump with equipment not in good condition, past required inspection/repack dates, or otherwise unsuitable for performing intentional parachuting jumps.
11.1.4.1.1(Added). Jumpmasters will ensure all loose items are stowed prior to exiting the aircraft. Boom microphones and communications cords must be secured before the jumpmaster leaves the aircraft.

11.1.4.2.1(Added). Ensure no parachutist performs a parachute jump for which the parachutist is not trained and qualified.

11.1.5. Parachuting Authorization. All scheduled parachuting activity will be documented on AFMC Form 56, prior to conducting parachuting operations and should reflect the *planned* activities inclusive of those jumps that were canceled. One form should be completed for each activity day, and may include multiple lifts to altitude if the platform aircraft remains the same. See AFMC Form 56, **Parachutist Jump Schedule**, attachment 3.
11.1.5.1(Added). Immediately below the large block remarks section is a review signature block for the DFO, or designated representative, authorizing the scheduled parachuting events for the day. This authorization will be obtained prior to the first lift of the day. Also, a JM signature block is included to ensure parachute jump schedule authorization accountability.
11.1.5.2(Added). Maintain each form in the active file for a period of one year, at which point they will

be moved to an inactive file for another year. After that period, they may be destroyed.

11.1.5.3(Added). Ensure the AFMC Form 56, **Parachutist Jump Schedule,** and AF Form 922, **Individual Jump Record**, are completed before and after the parachuting mission.

12.1. A safety review board must review all demonstration profiles prior to submission.

12.2. Send all demonstration profile packages to HQ AFMC/DOV for review and coordination at least 30 days prior to the event. Demonstration profiles will contain (as a minimum):

- A detailed narrative description of the parachute demonstration to include diagrams showing the flight path of the support aircraft and the target area in relation to the spectator area.
- Weather minimums and alternate plan for inclement weather.
- Jumpers qualifications.
- Type of parachute jump to be performed.
- Altitude the jumper will depart the aircraft and altitude the jumper deploys the parachute.
- Type aircraft used for jump platform.

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Director of Operations

AFMC Prescribed Forms:

1. AFMC Form 56: Parachutist Jump Schedule
2. AFMC Form 64: Parachutist Evaluation Record

3 Attachments

1. AFMC Parachutist Training Outline
2. Parachutist Evaluation Record
3. Parachutist Jump Schedule

AIR FORCE MATERIEL COMMAND PARACHUTIST TRAINING OUTLINE

1. General: This section outlines the phases of training in the AFMC Parachutist Program. Individuals who exceed qualifications may be considered qualified at local level on a case by case basis.

2. PHASE I, MISSION SUPPORT PARACHUTE TRAINING:

a. This phase trains a qualified military jumper (static line or freefall) in the local operational jump procedures of the AFMC unit. Those qualified in military freefall will be trained in the use of non-standard parachute equipment. Approximate training time is 9 hours for academics, 5 hours laboratory training, and 18 parachute deployments. Upon completion of training the trainee will be able to:

(1) Static line and freefall jumpers:

(a) Inspect, adjust, and don all required equipment.

(b) Conduct a predeployment parachutist inspection.

(c) Correctly react to jumpmaster instructions.

(d) Demonstrate canopy control by consistently landing within 50 meters of target.

(e) Perform jumps with combat equipment.

(f) Perform night parachute jumps.

(2) Freefall jumpers only:

(a) Perform a stable exit and descent, to include canopy deployment within 500 feet of an assigned altitude.

(b) Perform controlled right and left turns in freefall.

(c) Control horizontal movement in freefall.

(d) Recover from an intentional unstable exit.

(e) Pack the square main canopy intended to jump.

b. Lessons:

TITLE	HOURS
Local Jump Operations Administration and Records Local jump procedures	2
Staticline Equipment Familiarization Deployment process Packing Inspect, adjust, and don	1
Static Line Operations Predeployment procedures	1

Exit procedures
Post deployment procedures
Landings
Deployments: 4

Static Line Emergency Procedures 1
In-flight emergencies
Malfunctions
Hazardous landings

Standard Military FreeFall Equipment Familiarization and Packing 1
Components
AAD operations/restrictions
Packing
Inspect, adjust, and don

Standard Military FreeFall Emergency Procedures 1
In-flight emergencies
Malfunctions
Hazardous landings

Military Free Fall Operations 1
Predeployment procedures
Exit procedures
Post deployment procedures
Landings
Deployments: 4

Non-standard Equipment Familiarization and Packing 1
Components
AAD operations/restrictions
Packing
Inspect, adjust, and don

Non-standard Emergency Procedures 1
In-flight emergencies
Malfunctions
Hazardous landings

Gear Transition Laboratory Non-standard Parachutes 1
Flight characteristics
Hand deploy pilot chute
Canopy control
Deployments: 6

Freefall Aerobatics Laboratory 1
Backloops
Frontloops
Barrel rolls
Style set
Unstable exit
Deployments: 4

Night Parachute Operations 2
Local procedures

Equipment preparation
Safety/Emergency procedures

Cockpit Resource Management 16

3. PHASE II, TRAINING SUPPORT MISSION TRAINING:

a. This phase will introduce the student to emergency aircrew parachute and life support equipment. Approximate training time is 12 hours for academics, 12 hours laboratory training, and 13 parachute deployments. Upon completion of training the trainee will be qualified to perform demonstration jumps (static line or freefall) in support of aircrew training and be able to perform the following skills:

(1) Perform aircrew demonstration jumps using the C-9 canopy with four-line release (static line or freefall); execute post-deployment procedures and parachute landing fall.

(2) Exit the aircraft and maintain stable freefall with emergency aircrew equipment to include the B-22 parachute, survival kit, oxygen mask, and anti-G suit. (Freefall only)

(3) Exit in an emergency bailout body position, maintain for a minimum of 15 seconds, then stabilize and deploy the parachute. (Freefall only) **Exit altitude must not be lower than 8,000 feet AGL.**

(4) Prepare for and perform intentional water landings. (Static line or freefall)

b. Lessons:

TITLE	HOURS
Aircrew Parachute Equipment Familiarization and Packing Components BA-22 C-12 Chest Reserve FXC 12000	2
Emergency Procedures Aircrew Style Parachute Systems Malfunctions Hazardous landings BA-22 C-12	1
Survival Kit Equipment Familiarization and Packing ML-4 Survival Kit ACES II Survival Kit CNU-129P Survival Kit Inspection Maintenance Packing Operation	4
Life Support Equipment Familiarization Helmets Masks Anti-G Suits Torso Harness L.P.U.s	3

Aircrew Parachute Transition and Life Support Equipment Integration	8
C-9 flight characteristics	
Donning	
BA-22 Laboratory	
C-12 Laboratory	
Chest Reserve Laboratory	
Inspection	
Packing	
BA-22 Transition	
Deployments:	2
C-12 Transition	
Deployments:	2
Equipment Integration	
Deployments:	9
Water Parachute Operations	6
Local procedures	
Equipment preparation	
Safety/Emergency procedures	

4. PHASE III, TEST PARACHUTIST TRAINING

a. This phase of training will qualify the parachutist in all positions required to conduct test operations of aircrew emergency parachutes and related equipment as well as new jump platforms. Minimum training time is 16 hours for academics, 4 hours laboratory training, and 5 parachute deployments. OPR for this phase of training is the Test Parachutist Program, Air Force Flight Test Center, Edwards AFB, CA. Upon completion of training the student will be able to:

(1) Intentionally cut away from a simulated damaged parachute and deploy the reserve.

(2) Deploy a round reserve parachute while suspended under a simulated damaged round main parachute.

(3) Exit and fall stable with test unique equipment. Note: Previously approved low risk SRB procedures/restrictions will be adhered to for all test unique equipment.

(4) Develop a test plan for new equipment or a proposed change in procedure.

(5) Conduct objective testing and evaluation, following the guidelines established in a test plan.

(6) Prepare a test report using compiled data from a test project.

b. Lessons:

TITLE	**HOURS**
Test Unique Equipment	2
Normal Don and Doff	
Emergency Doff	
Effects on Freefall, Descent, and Landing	
Deployments:	2
Live Emergency Procedures	2

Deployments: 3

Test Planning 16
Project Managers Course

5. SPECIALTY TRAINING:

a. Specialty training is available to jumpers at various stages of their upgrade training. Once training has been completed, the jumper must maintain the associated currencies. Jumpers may receive any of the specialty training after completion of mission support training.

b. Lessons:

TITLE	HOURS
Mission Jumpmaster Training Directives Deployment planning Briefings Aircraft preparation, inspection, and loading JMPI Inflight communication Spotting Deployment procedures Aircraft procedures Post deployment procedures Mission debrief Missions: 3	3
Mission Instructor Training Learning process Teaching process Teaching methods Evaluation Instructor responsibilities Planning of instruction	8
Mission Instructor Laboratory Deployments: 10	15
Duties and Responsibilities of a Drop Zone Control Officer Pre-mission responsibilities Drop zone setup Drop/no drop criteria Verbal and visual communications Incident management Hazard identification Post mission responsibilities	4
Refresher Training	1
Advanced Freefall Techniques Freefall Maneuvering (FFM) Safety Body position	1

Maneuvers		
Freefall Maneuvering (FFM) Laboratory		1
Exits		
Body position		
Maneuvers		
Deployments:	20	
Tandem Master Training		
Tandem Manufacturer's Course		8
Deployments:	5	
Tandem Master Laboratory		4
Deployments:	15	
Freefall Photography Training		3
35 mm Still photo		
8 mm/Digital Video		
Deployments:	15	
Demonstration Jump Training		2
FARs		
Demo profiles		
Hazards associated with sites/equipment		
Smoke procedures		
Flag/Banner procedures		
Canopy formations		
Landings		
Deployments:	5	

PARACHUTIST EVALUATION RECORD

DATE: 6 Mar 98	UNIT/OFFICE SYMBOL: USAFSAM/FP	
NAME AND GRADE OF PARACHUTIST (Last, First, Middle Initial): Jumper, Joe P. SrA	AIRCRAFT TYPE: C-130	NEXT EVALUATION DATE: 6 Mar 99
PURPOSE OF EVALUATION: ☐ INITIAL ☐ PERIODIC ☒ FORMAL	TYPE OF PATTERN: ☒ FIXED ☐ CROSSWIND ☐ MOVING	
JUMPMASTER QUALIFIED: ☒ YES ☐ NO	NIGHT JUMP: ☐ YES ☒ NO	TYPE OF JUMP: ☒ FREE FALL ☐ STATIC LINE
NAME AND GRADE OF EVALUATOR (Last, First, Middle Initial): Rigger, John D. SSgt	OVERALL RATING: 01 / 02 / 03	REEVALUTION REQUIRED: ☐ YES ☒ NO
UNIT/OFFICE SYMBOL: USAFSAM/FPS, Brooks AFB, TX	X	DUE DATE

INSTRUCTIONS: Mark the appropriate block to indicate the quality of performance in each area. The items following each main topic are examples and are not limited to these alone. Comments are required in BLOCK III for all areas rated UNSATISFACTORY or Q-. If an item is not to be rated, line through the rating block to denote nonapplicability.

LEGEND: U = Unsatisfactory Q- = Limited Proficiency Q = Desired Proficiency

BLOCK I

	U	Q-	Q		U	Q-	Q
1. PREJUMP EQUIPMENT INSPECTIONS (All equipment)			X	9. JUMPMASTER BRIEFINGS (Pilot, jumper, safety person, DZ controller, uses of checklist)			X
2. PROPER FIT AND ADJUSTMENT (All Equipment)			X	10. JUMPMASTER CHECK (Equipment inspection, uses checklist)			X
3. AIRCRAFT EMERGENCY PROCEDURES (Before and after static line hook-up, following crash)			X	11. PREFLIGHT OF AIRCRAFT (Anchor line cable, aircraft configuration, door pin, safety inspection, use check)			X
4. INFLIGHT PROCEDURES (Visible safe altitude, reserve handle procedures, follows directions)			X	12. LOADING PROCEDURES (Aircraft approach, jump order, lap belt, and safety check)			X
5. EXIT PROCEDURES (Alert to final approach exit timing, clean separation, body position)			X	13. COMM PROCEDURES (Clear, concise instructions, keeps pilot properly informed, correct terminology)			X
6. MALFUNCTIONS (Hung jumper, partial, full malfunctions, midair collisions procedures)			X	14. SPOTTING PROCEDURES (Accuracy, timing)		X	
7. DESCENT PROCEDURES (Canopy control, accuracy)			X	15. HAND SIGNALS (Clearly given as briefed, understood)			X
8. LANDING - PLF (Water entry drags, recovery)			X	16. OTHER (Specify)			

BLOCK II WRITTEN EXAMINATIONS

CLOSED BOOK	DATE	GRADE	OPEN BOOK	DATE	GRADE
	5 Mar 98	96		6 Mar 98	100

BLOCK III EVALUATOR'S COMMENTS

Item 14 Spotting Procedures: SrA Jumper was not precise enough on his aircraft flight corrections, giving a 5 degree right turn when he should have given 15. This caused him to put out his jumpers 500 meters east of the intended exit point. When this item was debriefed, SrA Jumper understood that he under corrected the aircraft and that his spot would be off. No further guidance is needed at this time.

NOTES:
Blocks 1 thru 8 would be rated for a jumper evaluation only.
Blocks 9 thru 15 would be rated for a jumpmaster evaluation only.
Blocks 1 thru 15 would be rated for a jumper/jumpmaster evaluation.

BLOCK IV REVIEW

SIGNATURE OF EVALUATOR: J.D. Rigger	DATE: 6 Mar 98	SIGNATURE OF EXAMINEE: Joe Jumper	DATE: 6 Mar 98
SIGNATURE OF DFO: Mary Jones	DATE: 7 Mar 98	SELC INITIALS: JDC	NCOIC INITIALS: SM

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PARACHUTIST JUMP SCHEDULE				MISSION NUMBER	RANGE TIME	DATE
				As Required	1000-1400	6 Mar 98

AIRCRAFT	DROP ZONE	JUMPMASTER	MEDIC	PILOT BRIEF TIME	TAKE-OFF TIME
C-130	Midlakes	See Remarks	TSgt Fixer	0800	0945

AC CALL SIGN	D Z-CONTROLLER	GROUND-CALL SIGN	PRIMARY-FREQUENCY	SECONDARY-FREQUENCY	JUMPER BRIEF TIME
ARIS 22	SSgt Binoculars	Search 1	251.9	272.0	0900

MISSION STATUS

8	COMPLETE	4	INCOMPLETE	INCOMPLETE REASON: Wind out of limits - 20 KIAS	0	CANCELLED	8	TOTAL-DEPLOYMENTS

REMARKS

SrA Jumper, Mission Jumpmaster, Load 1 x Joe Jumper

SSgt Rigger, SELO / Jumpmaster, Load 2 x J.D. Rigger

TSgt Fourline, Jumpmaster, Load 3 x INCOMPLETE

SrA Jumper will be evaluated as a Jumpmaster/Jumper by SSgt Rigger on load #1.

MSgt Slider will be testing the improved sail slider for the MC-4 on load #2.

REVIEW SIGNATURE/POSITION Mary Jones AFO

JM SIGNATURE Bob Murphy NCOIC

LOAD	PASS	JUMP	NAME	SSN	CHUTE	MSL	AGL	DELAY	OPEN	REMARKS
1	1	L/F/M	SrA Jumper	000-00-0000	MC-4	9.5	9.0	:41	2.5	Jumpmaster/Proficiency Evaluation COMP
	1	L/F	SSgt Rigger	010-00-0000	MC-4	9.5	9.0	:41	2.5	Proficiency Evaluator COMP
	1	L/F	TSgt Fourline	000-01-0000	MC-4	9.5	9.0	:41	2.5	Proficiency COMP
	1	L/F	MSgt Slider	000-00-0001	MC-4	9.5	9.0	:41	2.5	Proficiency COMP
2	1	Y/F/M	SSgt Rigger	010-00-0000	NS	10	9.5	:32	5.0	Jumpmaster Safety Observer COMP
	1	X/F	MSgt Slider	000-00-0001	MC-4	10	9.5	:32	5.0	Improved Sail Slider Test COMP
	1	Y/F	SSgt Kodak	001-00-0000	NS	10	9.5	:32	5.0	Photo Support COMP
	1	Y/F	TSgt Streamer	000-00-0100	MC-4	10	9.5	:32	5.0	Safety Observer COMP
3	1	A	A1C Flattop	100-00-0000	S-18	2.0	1.5	n/a	n/a	Currency INC
	1	A	A1C Maewest	000-00-1000	S-17	2.0	1.5	n/a	n/a	Proficiency INC
	2	A	Capt Dring	000-10-0000	MC1	2.0	1.5	n/a	n/a	Proficiency INC
	2	A/M	TSgt Fourline	000-01-0000	MC1	2.0	1.5	n/a	n/a	Jumpmaster Proficiency INC

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